## In the Claims

The following is a complete listing of the claims and replace all prior claims in the application:

1 1. (Currently Amended) A method for minimizing the cycle time of a burnish test 2 cycle, comprising: 3 performing an initial burnish operation; 4 measuring performing an initial MR resistance measurement for a head; 5 determining whether the measured MR resistance indicates the head has 6 clearance; and 7 completing the test cycle when the head is determined to have clearance. 1 2. (Currently Amended) The method of claim 1 further comprising: 2 reducing the initiating operation to reduce fly-height of the head when the 3 measured MR resistance indicates the head does not have clearance; 4 perform a subsequent burnish operation continue burnishing the surface; 5 measuring the performing another MR resistance measurement again; and 6 returning to determine whether the measured MR resistance indicates the head 7 has clearance. 1 3. (Currently Amended) The method of claim 2, wherein the initiating 2 operation to reduce reducing the fly-height of the head further comprises selecting at 3 least one process from the group comprising reducing the pressure within the disclosure, reducing the spindle speed and increasing the pre-load to the head. 4

- 1 4. (Original) The method of claim 1, wherein the determining whether
- 2 measured MR resistance indicates the head has clearance further comprises comparing
- 3 the absolute MR resistance measurements to a threshold to identify whether the head
- 4 has clearance.
- 1 5. (Original) The method of claim 1, wherein the determining whether
- 2 measured MR resistance indicates the head has clearance further comprises comparing
- 3 the MR resistance rate of change to a threshold to identify whether the head has
- 4 clearance.
- 1 6. (Currently Amended) A drive controller for minimizing the cycle time of
- 2 a burnish test cycle, the drive controller comprising:
- memory for storing data therein; and
- 4 a processor, coupled to the memory, the processor being configured for
- 5 performing an initial burnish operation, measuring performing an initial MR resistance
- 6 measurement for a head, determining whether the measured MR resistance indicates the
- 7 head has clearance and completing the test cycle when the head is determined to have
- 8 clearance.

- 7. (Currently Amended) The method of claim 6, wherein the processor is
- 2 further configured for <u>reducing the</u> initiating operation to reduce fly-height of the head
- 3 when the measured MR resistance indicates the head does not have clearance, perform a
- 4 subsequent burnish operation continue burnishing the surface, measuring the
- 5 performing another MR resistance measurement again and returning to determine
- 6 whether the measured MR resistance indicates the head has clearance.
- 1 8. (Currently Amended) The method of claim 7, wherein the processor
- 2 <u>initiates operation to reduce reducing the</u> fly-height of the head by selecting at least one
- 3 process from the group comprising reducing the pressure within the disclosure, reducing
- 4 the spindle speed and increasing the pre-load to the head.
- 1 9. (Original) The method of claim 6, wherein the processor determines
- 2 whether measured MR resistance indicates the head has clearance by comparing the
- 3 absolute MR resistance measurements to a threshold to identify whether the head has
- 4 clearance.
- 1 10. (Original) The method of claim 6, wherein the processor determines
- 2 whether measured MR resistance indicates the head has clearance by comparing the MR
- 3 resistance rate of change to a threshold to identify whether the head has clearance.

1 11. A program storage device readable by a computer, the (Original) program storage device tangibly embodying one or more programs of instructions 2 3 executable by the computer to perform operations for minimizing the cycle time of a burnish cycle, the operations comprising: 4 performing an initial MR resistance measurement for a head; 5 6 determine whether the measured MR resistance indicates the head has clearance; 7 and completing the test cycle when the head is determined to have clearance. 8 1 12. (Currently Amended) The program storage device of claim 11 further 2 comprising: 3 performing an initial burnish operation; 4 measuring performing an initial MR resistance measurement for a head; 5 determining whether the measured MR resistance indicates the head has 6 clearance; and 7 completing the test cycle when the head is determined to have clearance. 1 13. (Currently Amended) The program storage device of claim 12, wherein the initiating operation to reduce reducing the fly-height of the head further comprises 2 3 selecting at least one process from the group comprising reducing the pressure within 4 the disclosure, reducing the spindle speed and increasing the pre-load to the head.

- 1 14. (Original) The program storage device of claim 11, wherein the
- 2 determining whether measured MR resistance indicates the head has clearance further
- 3 comprises comparing the absolute MR resistance measurements to a threshold to
- 4 identify whether the head has clearance.

- 1 15. (Original) The program storage device of claim 11, wherein the
- 2 determining whether measured MR resistance indicates the head has clearance further
- 3 comprises comparing the MR resistance rate of change to a threshold to identify whether
- 4 the head has clearance.